Can hirport Rich
(The Second Try!)
No site #

State Form 4336

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

INDIANAPOLIS

OFFICE MEMORANDUM

Date: March 30, 1995

To:

Greta J. Hawvermale, OER

Thru:

From:

Jim Smith, OER Jum

Subject:

Gary Regional Airport

Per your request, Rich Molini and I reviewed the Gary Regional Airport request for "Funding for Environmental Issues" August 1, 1994 letter to Mr. Curtis Wiley of Indiana Department of Commerce and associated documents to prepare recommendations as to payment for "the completed report" and proposed projects for expenditure of the \$235,000 IDEM funding promised in 1992. Our recommendations in order of **priority** follow:

- The August 1, 1994 letter identifies two Phase I and one Phase II Site Assessments on approved potential expansion areas which were completed at a cost of \$123,502. Both Phase I reports were typical desk top, paper searches for environmental concern related to the areas. A single field visit (walk over) was conducted for each. The Phase II site assessment included surface soil and ground water sampling near an underground fuel tank. While we feel the costs associated with these studies is slightly inflated (see attached), the work has been approved and completed by a contractor to the Gary Regional Airport. We recommend payment for the completed reports.
- Item 2. Fuel Tank Removal and Soil Disposal should receive the highest priority for use of remaining funds. Anticipated costs identified at \$85,000 to \$90,000 may be inflated for the stated projects. Submitted bids for removal of a 6,000 gallon leaking underground tank ranged from \$3,500 to \$4,700 (IDEM staff estimates ranged from \$3,000 to \$5,000). Contaminated soil or liquid disposal was not included in quoted prices. A second tank, which was not identified in the Site Assessment Reports, was also to be removed. All product had been removed from this second tank but no soil or ground water samples had been taken (IDEM staff estimated cost for removal of underground storage tanks ranged from \$1,000 to \$2,000 plus soil or liquid disposal costs). An estimated 1,100 cubic yards of contaminated soil was to be removed and disposed of at an estimated cost of \$45,000. Additional data will have to be collected to justify the necessity of removing this much soil; initial sampling indicated that most contamination associated with the tank was restricted to proximity of the tank only. Ground water contamination was also found in the immediate vicinity of the leaking

Greta Hawvermale March 23, 1995 Page Two

tank. We recommend initial funding of \$30,000 to cover cost of underground fuel tanks removal and closure. Additional funds should be provided only as needed to cover justified costs.

- 3) Wet Prairie Restoration Approximately \$50,000 was requested for further planning and implementation of restoration plan for "... two areas where restoration of the wet prairie area would particularly enhance the visual image of the airport." These two areas are identified in the Gary Regional Airport Master Plan (Phase I Report, February 1994), Airport Layout Plan, Chapter Nine, Figure 2 of 9 as "Stage I Wet Prairie Restoration Area". However, it can also be noted that in EXHIBIT 8-J in Chapter Eight of the same Master Plan the sedge meadow/wet prairie wetlands already exist in the exact spot where the airport proposes to restore these wetlands. We can not recommend that funds be provided to the airport to restore wetlands that already exist. We would recommend that funds be provided to the Gary Regional Airport to support development of a mitigation plan to compensate for the planned future impact or destruction of approximately 150 acres of wetlands on the airport property.
- Nike Site Clean Up A request of \$30,000 seems excessive. Lead and other contaminant levels associated with water standing in the underground silo do not seem to be of sufficient concentration to require special treatment prior to disposal. It is doubtful that pretreatment would be required to dispose of this water via the Gary Sanitary District(GSD), a charge probably would be assessed for disposal and treatment at the GSD. Testing is estimated at \$500 to \$1000. Bids submitted for tank removals above indicate that liquid disposal costs (for bulk disposal) ranged from \$12,600 (\$.42/gal) to \$19,780 (\$.62/gal. + \$285/truck [3 loads est.] + \$325 sampling).

As a former NIKE Site, does this fall under the Department of Defense program? A check with Rex Osborn, IDEM's Defense Environmental Restoration Program Coordinator, indicated that two NIKE Formerly Used Defense Sites (FUDS) are identified for the Gary Area but it is unclear if the one at the airport is included. Mr. Gary Chisholm, FUDS Project Manager, U.S. Army Corps of Engineers, Louisville, Kentucky (502/625-7010) might provide information relative to the Gary Airport Site.

We recommend that this site be funded only if (a) funds are not available through the Department of Defense's Formerly Used Defense Sites program, and (b) at documented cost.

Estimated costs for Phase I Assessment:

Research, Site Visit and Report Preparation costs \$2,500 to \$5,000 X 2 = \$10,000 (max assumed)

Estimated costs for Phase II Assessment:

Sampling: Laboratory Soil \$21,160

Water \$6,650 Borings \$11,000 Wells \$10,000

Field Work \$10,000

Report Preparation (assume 10 person days @ \$85/hr.) \$6,800

Miscellaneous costs \$15,000 Error in estimate +/- 15% \$12,000

Total estimated costs for the two Phase I and one Phase II Site Assessments with above assumptions would fall somewhere between \$70,000 and \$95,000.

THIRD REGIONAL AIRPORT - GARY CONCEPTS REMEDIATION COST ESTIMATES

ASSUMPTIONS

- o Totally clean site is impossible Airport will accept contaminated site/ liability
- Areas with foundry sand/slag left in place, if not hazardous
- o Solid waste landfills must be excavated and removed and relandfilled off-site due to structural_problems.____
- o Superfund sites must be excavated, incinerated, or solidified and residues landfilled at a RCRA facility. Slurry walls around perimeter for groundwater containment
- O Leaking underground storage tanks are in the area requiring clean-up to IDEM std. of 100 ppm total hydrocarbons
- O Soils at Tank farms/refineries are contaminated with petroleum.
- O City of Gary's Ralston St. sludge lagoon contains PCB wastes 600,000 yd³ @ 20% total solids (est.) Remediation includes sludge drying and incineration with landfilling residues at a hazardous waste landfill.
- DuPont contaminated soil- assume incineration as a hazardous waste
- All costs are for remediation. No demolition costs are included (except for asbestos, underground tanks)
- O Due to land ban restrictions, remediation involves excavation, incineration and/or solidification with landfilling of residues at a hazardous waste landfill.
- O Costs are for cleanup under EPA and IDEM standards based on 1991 costs. Current property owners and cleanup projects could be called upon to pay some or all of the cleanup costs.

124 162

Prepared by:

HNTB March 12, 1991 Revised March 26, 1991

THIRD REGIONAL AIRPORT - GARY CONCEPTS REMEDIATION COST ESTIMATES

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THIRD REGIONAL AIRPORT - GARY CONCEPTS REMEDIATION COST ESTIMATES

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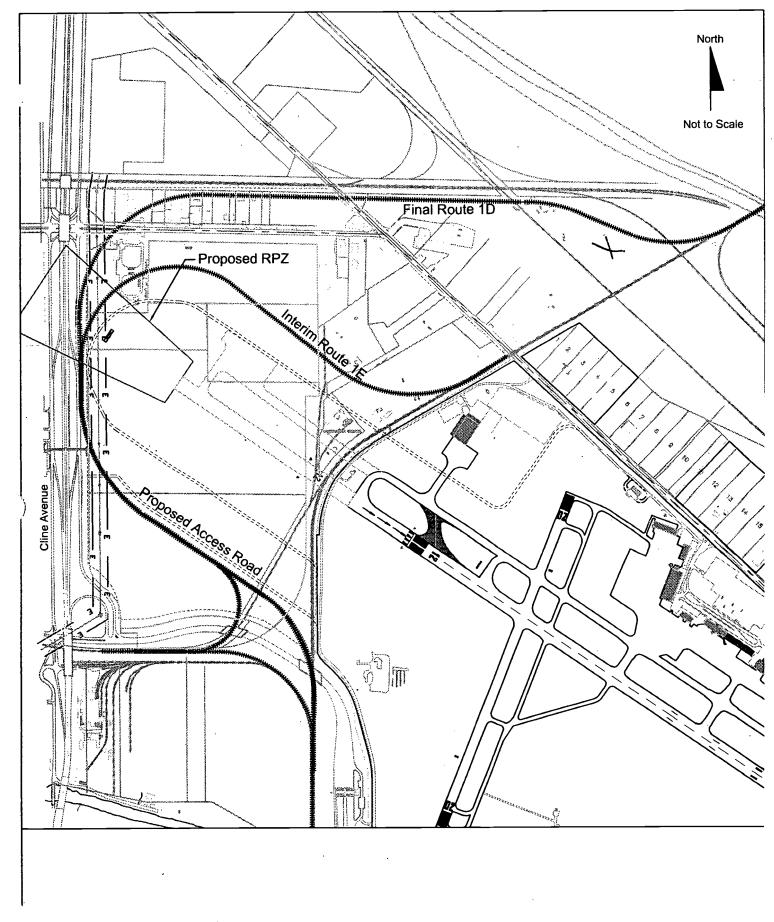




EXHIBIT 2-3
Rail Relocation Routes
1D and 1E

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INDIANA DEPARTMENT OF TRANSPORTATION

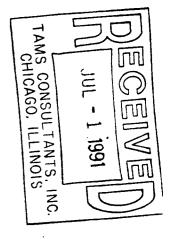
100 North Senate Avenue
Room 1101
Indianapolis. Indiana 46204-2249
(317) 232-5533 Fax | 317)-232-0238

OFFICE OF THE COMMISSIONER

Room 1101 State Office Building Indianapolis, Indiana 46204-2249 317-232-5526

June 26, 1991

Mr. Rocquin L. Van Guilder Assistant Vice-President TAMS Consultants, Inc. Two Illinois Center, Suite 1921 233 North Michigan Avenue Chicago, Illinois 60610



Dear Mr. Van Guilder:

Indiana, as a sponsor of the Third Airport Study, developed the following questions and preliminary technical comments regarding TAMS Working Paper 10; Trip Generation/Distribution of Enplanements. The purpose of this letter is to gain additional insight as well as to offer specific comments with regard to the methodologies and assumptions used in the working paper. I have grouped Indiana's questions and comments into various subject areas as indicated below.

Passenger Survey

With regard to the residential survey of air travellers, Indiana found no explanation as to why trips of less than 150 miles were excluded (there is jet service from Chicago to five markets within 150 miles) and whether that might have introduced any bias into the survey results. Also, since the survey was conducted in March, there may be potential bias due to the college student population taking spring break vacations.

Indiana's questions are:

- * Why was the survey restricted to trips of more than 150 miles?
- * Is there any potential bias resulting from the survey being conducted in March as opposed to a different month of the year?

Capacity

The estimated capacities for O'Hare and Midway in Working Paper 10 vary slightly from those presented in Working Paper 10A; - Chicago Airport System Capacity with no explanation of the difference. This is relevant because the HNTB analyses used the Working Paper 10A data.

Indiana's question is:

* Why were the capacity estimates changed between Working Paper 10A and Working Paper 10?

International Passengers

The TAMS allocation of international traffic is driven solely by capacity. O'Hare is assumed to accommodate all potential international traffic until it reaches the capacity of its international facilities. After that, all additional potential international traffic (2.4 million in 2010 and 5.9 million in 2020 according to your forecasts) is assumed to go to the new airport regardless of location.

Indiana's questions are:

- * Was there any analysis conducted of the ability of the urban airport sites, Gary and Lake Calumet, to attract international originating traffic before the year 2010?
- * Was there any analysis conducted regarding whether potential originating international traffic at the rural sites, Peotone, BiState, and Kankakee, would be sufficient to attract the necessary international service?
- * Was there any analysis conducted regarding the possible loss from the region of potential international connecting traffic?

Origin-Destination Passengers

Indiana has two initial issues that need to be addressed regarding the estimation of domestic originating passengers: (1) the selection of the travel time coefficient, and (2) the assumption of additional initial hotel room originations at the new airport site.

The distribution of passenger originations is sensitive to the travel time coefficient used in the multinomial logit model since the lower the absolute value of the travel time coefficient, the lower the impact of airport distance on passenger choice. The coefficient used in the TAMS analysis (-0.06) has a lower absolute value than those previously calculated in studies for Baltimore-Washington, San Francisco, or Central England.

In addition, the survey data from which the coefficient was estimated does not include residential passengers making trips of less than 150 miles, who may be the most time sensitive. For example, a passenger who needs to get to Milwaukee quickly enough to choose to fly is not going to want to spend a lot of time driving to the airport.

The TAMS allocation methodology adds hotel rooms to the new airport site (2000 rooms in the year 2000 and 4000 rooms in the year 2010) which in turn generate additional originations in the immediate new airport vicinity. The hotel rooms are assumed to be in the airport vicinity because of passenger activity. This creates an initial "bootstrap effect" which should perhaps be left to later iterations.

In addition, the number of assumed hotel rooms is identical for each new airport site regardless of the actual originations generated. Indiana does not support this assumption.

Indiana's questions are:

- * How much impact does the value of the travel time coefficient have on the passenger origination allocations?
- * Was there any examination of the potential effect of the exclusion of trips less than 150 miles from the survey upon the travel time coefficient?
- * What would the passenger allocations have been without the additional hotel rooms assumed at the airport sites?

Connections

Your study assumes that 50 percent of traffic at O'Hare will remain connecting. You argue that in recent years the percentage of connections at O'Hare has not fallen despite the fact that the airport is approaching capacity. This assumption may not hold in the long run because:

- * Other airports approaching capacity, such as Atlanta, have experienced reductions in the connecting percentage.
- * As capacity is reached, airlines experience higher operating costs. They will find it more economical to divert some connecting passengers through other hubs than to lose originating passengers.
- * Although the loss of connecting activity would have a negative impact on the local economy, this is unlikely to be a major consideration among the airlines.
- * Although airlines will almost certainly maintain some connecting activity at O'Hare, a moderate reduction in the connecting percentage is reasonable. It is also likely that this reduction will be dependent to some extent on the location of the new airport site.

Your summary tables (Tables 11 and 12) of connecting total passengers do not provide projections for the new airport sites under the unconstrained capacity scenario, instead stating that these numbers are "not meaningful" without allowing the reader to make that judgement.

Indiana's questions are:

- * Is there any basis for assuming that the connecting ratio at O'Hare would be 50 percent regardless of the location of the new airport?
- * Why are the "not meaningful" numbers in Tables 11, and 12 not meaningful. What are the actual values?
- * In Table 12, why is the total domestic estimated traffic at O'Hare less under the unconstrained capacity scenario than under the constrained capacity scenario?

Other_Issues

Indiana would also like to clarify the portion of the working paper that references HNTB's recent report. We want to make sure that we understand your statements regarding the forecasting completed by HNTB. It is our understanding that both studies used the 90 million passenger regional forecast.

In summary, the assumptions used in the TAMS distributions of international originating and connecting passengers combine to result in a conclusion that all 90 million potential passengers can be accommodated within the region, regardless of the location of the new airport site. Given the TAMS analysis, the conclusion is that from a passenger demand standpoint, the location of the new airport is irrelevant. Indiana does not accept this, and certainly before accepting this conclusion, the methodologies and assumptions should be better documented and explained.

I look forward to hearing from you in the near future.

// / +

Christine W. Letts Commissioner

cc: Kirk Brown
Robert Repel
Robert York
Lou Yates
Don Corinna

Data Requests
Waste/Contaminants
Site Selection Process
Supplemental Airport, NE-IL NW-IN

- Provide the name of the contact within each state to obtain well registration information.
- Locate solid waste and hazardous waste sites to determine if any potential properties have been or are currently involved in sampling or cleanup operations. Include State-funded or enforced cleanup projects (State sites) with the status of scoring or remediation.
- Locate sites which may have had any actions or complaints filed against them recently, which may not have been included on other listings. These listings include those resources commonly available to the public.
- Provide the name of the person to contact, or provide the information, regarding available groundwater monitoring or production well quality information for areas within the alternative study sites. Information of interest includes: groundwater elevations, flow direction, horizontal and vertical permeabilities of the different units, transmissivity/yield, and the most recent groundwater quality data.
- Provide the name of the person to contact at the local agency level (such as Health, Fire, and Water Departments) who may have knowledge concerning any possible solid/hazardous waste sites, underground storage tanks, or landfills which may have escaped inclusion in other state or regional listings.
- Provide the name of the person to contact, or provide the information, concerning the acquisition of current and historical aerial photographs (stereo pairs if available) of the alternative sites.
- Identify the existence of active sanitary landfills within 10,000 feet of the proposed study areas.
- Provide the name of the person to contact, or provide the information, concerning boring logs (overburden) for each of the study areas.

REQUEST FOR A CLARIFICATION OF REGULATORY PHILOSOPHY REGARDING WASTE RELATED ISSUES

• Provide a brief description of philosophy of groundwater cleanup in industrial areas and negotiable flexibility if there is no planned use of groundwater as a drinking water source.

• Provide a description of philosophy of soils cleanup in industrial areas. For example:

Is isolation or containment of contaminants on-site (as opposed to treatment) an acceptable approach?

If contaminants are at a hazardous level is isolation still acceptable?

Is capping an acceptable long-term approach to management of contaminants? For example, can soils or wastes contaminated by toxic metals be consolidated from various parts of the acquisition area and managed by capping?

• What are the institutional barriers to consolidating cleanup of Federal and State Superfund sites in a single program with other waste concerns as part of airport construction?

Is this at all possible? If so, how might the coordination of these efforts impact the project schedule?

If, for instance, the Gary site were selected for airport construction is there sufficient political cooperation expected to allow such an approach with perhaps-the project sponsors or another single entity assuming legal responsibility for all cleanup.

GARY AIRPORT PROJECT

This report is being prepared for HNTB Consultants and the Department of Transportation for use in estimating remediation costs for underground storage tank releases in the Northwest Indiana area being considered for major airport examsion. The area studied encompasses parts of Gary, Hammond, and East Chicago based on the following postal zip codes, 46312, 46406, 46404, and 46402.

The attached chart #1 shows the number of registered facilities in each code and is then multiplied by the percentage of that area code affected by the proposed expansion. These percentages were supplied by HNTB. There are also unregistered facilities in the area. A drive through conducted by the LUST Section's NW staff member indicates that there is approximately 22 unregistered and/or abandoned facilities in the subject area. Therefore the total number of facilities this report is based on is 106.

Several assumptions have been made in determining remediation needs.

- 1. The 22 abandoned and/or unregistered facilities are all assumed to need some level of remediation. Previous situations statewide support using this assumption. If a tank area is not maintained, upgraded, and properly closed there are releases.
- 2. Due to the high water table in the area it is assumed that more of the releases will affect the groundwater and therefore raise the associated costs.
- 3. Also due to the high water table and the sandy soils in the area, more sites are assumed to be elevated to the medium and high priority classes. Based on these assumptions, the number of anticipated remediations for this area if all these facilities were closed is 75% or 80 facilities will require some clean-up.

UST closures and remediations primarily fall into 3 priority categories. Low priority remediations are associated with soils only contamination. Average costs for these clean-ups range from under \$25,000 to approximately \$60,000 based on the amount of soil affected and the remediation technology selected. An average cost of \$35,000 has been assigned to this category for the purposes of this report with 30% of the total remediations being assigned to this category. Remediation technologies commonly used include landfarming/bioremediation, soil vapor extraction, in situ bioremediation, soil venting, and landfilling. Other remediations being proposed include asphalt batching, thermal extraction, and incineration.

Medium priority clean-ups involve remediation of soils and dissolved product in the groundwater. Remediation costs range from \$50,000 to approximately \$100,000 with an average of \$75,000 used for this report. About 45% of the total number of anticipated clean-ups have been assigned to this category. The low priority soil remediation technologies also apply here along with pump and treat with a discharge or reinjection, or bioremediation for the groundwater clean-up.

High priority clean-ups involve free product, affect a drinking water supply, and/or involve explosive vapors in sewers, homes, or businesses. These are the longer term clean-ups with costs always exceeding \$100,000 and range upward to approximately \$500,000. An average cost of \$225,000 has been assumed for this report. The higher costs are associated with the primarily sand and sand mix soils in the area which allow

free product to reach the water table quicker and to spread faster. Of the total anticipated clean-ups, 25% have been assigned to this category. High priority remediations require soil clean-up, free product removal, dissolved product treatment, and often venting of sewer systems or homes with utility lines sometimes needing replacement.

FACILITIES WITHIN THE PROPOSED EXPANSION AREA

Zip Code	# of Registered Facilities		% of Zip Code : Study Area	in	Total
46406	39	X	100%	=	39
46404	20	X	50%	=	10
46312	64	X	50%	=	32
46402	30	X	10%	=	3
		,	• .		84
	Approxim	ate #	of Unregistered Fa	acilities =	22
					106

REMEDIATION COST ESTIMATE

Low Priority Sites

Total Remediation Sites 80	X	$\%$ in this Category $^\circ$ 30%	=	Total L ow Sites 24
# of Low Sites 24	х	Average Cost \$35,000	=	Total \$ Low Sites \$840,000
Medium Priority Sites				
Total Remediation Sites 80	X	% in this Category 45%	=	Total Medium Sites 36
# of Medium Sites 36	x	Average Cost \$75,000	=	Total \$ Medium Sites \$2,700,000
High Priority Sites				toric de la compa
Total Remediation Sites 80	X	% in this Category 25%	=	Total High Sites
# of High Sites 20	X	Average Cost \$225,000	=	Total \$ High Sites \$4,500,000

TOTAL = \$8,040,000 FOR REMEDIATION OF AN ANTICIPATED 80 SITES

7

THIRD REGIONAL AIRPORT - GARY CONCEPTS IDEM REMEDIATION COST ESTIMATES MEETING AGENDA APRIL 23, 1991

- I. Airport Project Overview
- Remediation Cost Estimate Task
- III. List of Waste Sites
 - (a) IDEM Review List
 - (b) Remedial Action Plan NW Indiana
 - (c) Congressman Visclosky Letter
 - (d) CERCLIS List-Lake Co.
 - (e) Other
- IV. Waste Site Types
 - (a) Superfund Sites(b) RCRA Sites

 - (c) CERCLIS Sites
 - (d) Solid Waste Sites
 - (e) Petroleum Sites (Tank Farms UST)
 - (f) Other Sites (Treatment Plants, Lagoons, Dredgings)
- V. Remediation Cost Assumptions
- VI. Format Sheet

VII. Schedule

- lature Prederved (Dong: Cartage)

JAR contact: John Become

Prepared by:

HNTB

April 23, 1991

/blc



HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS

225 North

New Jersey Street

Indianapolis, Indiana

May 6 9 36 AM 19 46204-2135 (317) 636-4682

OFFICE OF SCLEAX (317) 633-0505 AND HAZARDOUS WASTE NOWT DEM

May 2, 1991

Ms. Anne Black, Chief
Underground Storage Tank Section
Office of Environmental Management
Indiana Department of Environmental Management
5500 West Bradbury Avenue
Indianapolis, IN 46241

Re: Third Regional Airport - Gary HNTB Job No. 14520-11-01

Dear Anne:

Please find enclosed the Gary area zip code map for use in quantifying the number of underground storage tanks (UST) in the vicinity of the new regional airport. As discussed at our April 17, 1991 meeting, a UST count is needed to determine a probable cost to remediate underground storage tanks. We understand that IDEM has a computerized data bank of reported UST locations which can be searched by zip code. You indicated that the Gary area has an incomplete list due to nonreporting by owners.

In order to estimate the actual number of tanks, we would suggest development of a average number of tanks per area for cities similar to Gary. The proposed Gary acreage could be multiplied by the average number of USTs per acre to estimate the total number of USTs in the area.

We understand that IDEM prioritizes UST site work based on impact potential with sites categorized as low, medium, or high priority. Low priority sites involve tank removal with costs less than \$25,000. Medium priority sites exhibit soil contamination with petroleum and may cost \$60,000 to \$70,000 for closure. High priority sites involve groundwater contamination or massive soil contamination with cleanup costs typically in excess of \$150,000 per site. Based on historical cleanup costs that IDEM is familiar with, please estimate the expected percentage of low, medium, and high priority sites and the estimated closure costs for the total number of UST sites determined previously.

Finally, several tank farms and an oil refinery are located in the project area. It is highly likely that these facilities, due to their age and nature of the industry, have contaminated the soil and possibly the groundwater with petroleum. A remediation estimate is needed for soil and groundwater cleanup with costs based on historical UST data for soil disposal and groundwater cleanup.

Pertners Charles T. Homman PE, Damier J, Sanja PE, John L, Cotton PE, Robert S. Cono PE, Dorsid A. Opbies PE, James L. Totto, Jr. PE, Hourt E. Scholl PE, Greece G. Condition AIA, Continued States, Jr. PE, Ramony J. Pertner J. Francis AIA, Continued D. Reckman PE, Ramony J. Francis AIA, Continued D. Ramony J. Ramony

Associates Nondot F Lancon (PA, Foliants, W Sommon PE, France P, Hortesta CE, Homes P, Homes P, Hames P, Walant Stanker PE, France F Lance P, Hortesta CE, Homes P, Homes P, Homes P, Homes P, Lance P, L

Offices Absorbation VA, Abbarba, GA, Thisar Fernin, LA, Hordan, MA, Chareston, WV, Chareston, U., Cleverani, Ohr, Commert, GA, Chares, ES, Hervice, CD, Emerick, SE, Hervice, GB, Harvice, GB, Karasa, Cdv, MC, Consono, SE, Commercia, MA, Car, Antonice, GA, Mann, FL, Miwanker, WI, Minnestolle, MN, New York, NY, Oklahoma Clav, HK, Clebrath, PL, Overland Phris, KS, Philadelphic, PA, Pannin, AZ, Halenja, MC, Genthi, WA, Langua, LL, Gent, UK, Winnespare, DF

Ms. Anne Black Indianapolis, Indiana May 2, 1991 Page 2

A followup meeting is tentatively scheduled for Friday, May 17, 1991, at IDEM to review remediation costs, to allocate costs to responsible parties, to review possible "economies of scale" for area wide cleanup, and to project timetables for site remediation efforts.

Thank you for your assistance with the underground storage tank and petroleum industry remediation estimates. Should you have any questions or comments, please feel free to call.

Very truly yours,

HOWARD NEEDLES TAMMEN & BERGENDOFF

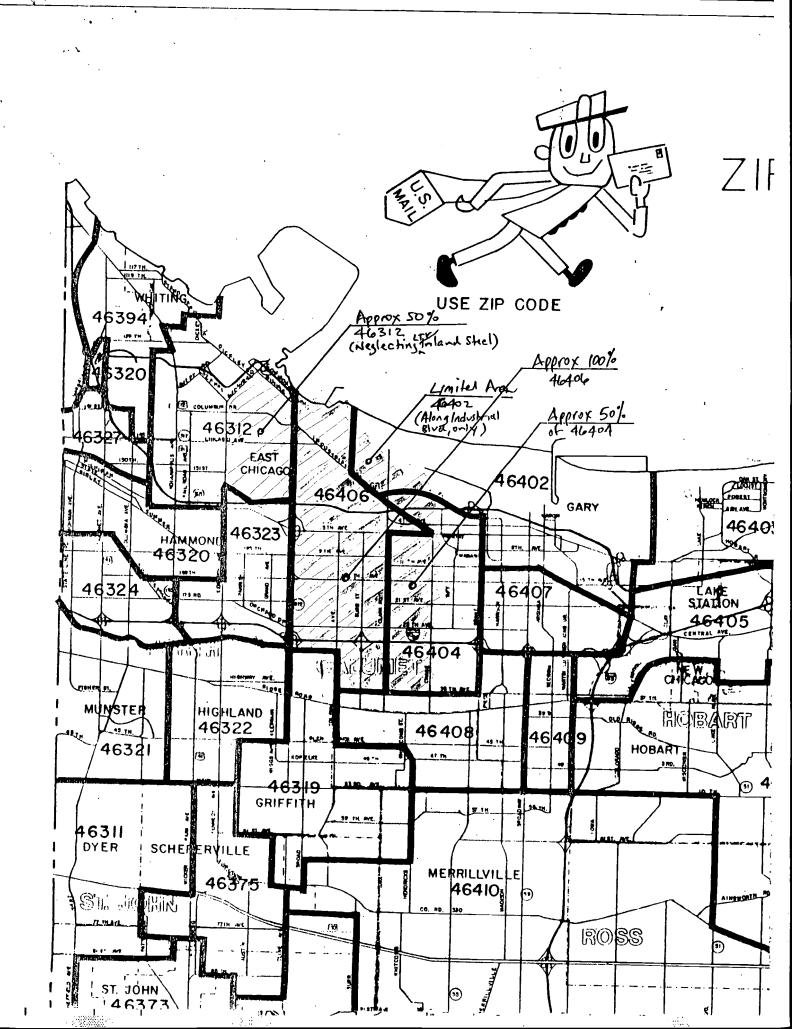
ames T. Parks, P.E.

Project Engineer

JTP/blc

Enclosure

cc: Harry Atkinson, IDEM
John W. Myers, HNTB
Bryan Nicol, INDOT



Vokan Materials Company SITE W. Drosyyy 13805 8307-048 DATE <u>5-16-85</u> 25,35 TDE 1:00 p.m. SITE Valcan Materials Company of usslead CONFACT Bill Baldwin PHONE (219) 886-3770 Maineer Cary-Nobart Water Company SUBJECT In response to a letter dated May 10, 1985 To: Mr Baldwin Engineer Gary Hilbart Water Company From: Buth Ann JACQUETTE, Environmental scientist, Ede une of those doldusses listed in appendix A, the following currently obtain drinking water from the Day- Hobert water Company 2921 6th avenue 7105 5th avenue 2929 6th avenue <u>5630 9th</u> avenue 5824 9th avenue 2937 6th avenue 5718 9th avenue 2945 6th avenue 5830 9Th anenue 2961 6th avenue 5838 9th avenue 2973 6th anenue 6000 gra avenue 1718 Williams Freet 6014° 9Th avenue 1370 Baker Strut 1140 Blaine Struct 538. Threy Street 548 Juny Street 1520 Blaini Strut 1306 15th am Stut 556 Janey Street 564 Janey Stut Puth ann. Jacqueta (FT)
Date: 5-16-85

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would be an exorbitant cost to be	
placed on a home owner. Many	•
main water lines may be near	
these homes buit the cost y an	
uxtention pipe, plus a hook-up	
would amrage 500.00.	
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APPENDIX A - LIST OF ADDRESSES AND BUSINESSES

I.

7100 Chicago Avenue - Steel Haulers, Inc. receive Dang-Hebart Water

∼7100 Industrial Highway - Thatcher Engineering includes four

(subsidiaries in same complex well used for wasking) not consumed

1. Thatcher, Inc. (Counted as five single units).

2. Blitz Coupler

- 3. Slurry Systems, Inc.
- 4. Thatcher Marine

do not use well, dunk Bottled water.

II.

7500 Chicago Avenue - Ligon Corp.

do not use well, dunk Bottled Water

Clark Road

145

156

W. Birch

144

1:45

150

192

Hobart Street

325-329 (Six residential units were assumed).

347

349

367-371

5th Avenue

7105

7121

unmarked house in 7300 block

157 Dewey Street

13

Lee S	treet	Fairbanks Street
149	150	521
153	152	559
157	158	-

9th Avenue

Served By Gary-Hobart

5824

5630

5718 Sanders Temple, Church of God in Christ

5830

5838

6000

6014

6701

6719 M.S. Compass (truck terminal)

III.

Taney Street

538 All are duplexes with two residences.

544 Structures look new.

548 Total of 12 residential units.

556

560

564

served by Gary Hobart and are outside 4 the Vokan materials Radios

0

6th Avenue	Baker Street
materials. 2945 Cary Hobit radius. 2961 2973 1508 Waite Street	1370 - Served by Gary Hobart 1716. 1718 1720 1730 1358
Dallas Street 1104 1119 1150 1125 1143 2 una dauss 1146 1160	ed homes

Blaine Street

9th Avenue

1140 R. J. Connor Contractors
1520 General Drainage (Counted as three units)
Independent Waste Systems
MMT - Management Marketing Team, Inc.

Served by Gary Hobart

15th Avenue

5829 Canaan Baptist Church

unmacked residence

14 6700 D & B Motors - use bottled water, no well usage.

7306 Indiana State Highway Commission - maintenance garage —

7336 Enterprise Truck Line, Inc.

AMS - Associated Mechanical Service, Inc. 7413

77700 Matz American Plating

20th Avenue

,7260 Carl Anderson residence Newbork

7264

7266

71 7268

Cline Avenue

1601 Hessville Cable and Sling - use bottled water, no week usage.

1967

2009 Brunswick General Baptist Church

25 2025

Burr Street

too Far

1595 1827 New, single family homes

1725 1831

1743

1745

Ralston Street	Hovey	Place					
tco far							-
1740	1912	1925	A11	are	single	family	residences.
1742	1924	1949					
1746	1960	1973					
1760	1972	2001					
1790	2012	2019					
1800	2024	2037					
	2036	2061					
	2048	2083					
	2060	2091					